



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 19 94 50 60

Classification of the application (IPC):
H04W 24/10, G01S 5/02, H04W 64/00

Technical fields searched (IPC):
H04W

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2018139763 A1 (BITRA SURESH KUMAR [IN] ET AL) 17 May 2018 (2018-05-17)	1, 2, 7, 8, 13-15
Y	* paragraphs [0046], [0065], [0070], [0079], [0080], [0093] * * figures 3A,3B,4,5 *	3-6, 9-12
X	US 2018146332 A1 (OPSHAUG GUTTORM [US] ET AL) 24 May 2018 (2018-05-24)	1, 2, 7, 8, 13-15
Y	* paragraphs [0049], [0066] - [0073], [0097] - [0102] *	3-6, 9-12
A	US 2015230112 A1 (SIOMINA IANA [SE] ET AL) 13 August 2015 (2015-08-13) * paragraphs [0073] - [0086], [0100] *	1-15
A	WO 2014146530 A1 (HUAWEI TECH CO LTD [CN]) 25 September 2014 (2014-09-25) * paragraphs [0131] - [0158] *	1-15
A	US 2017289831 A1 (PARK JONGHYUN [KR] ET AL) 05 October 2017 (2017-10-05) * abstract * * paragraphs [0007], [0128], [0210] * * figure 15 *	1-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 04 August 2022	Examiner Moreno-Solana, S
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CATEGORY OF CITED DOCUMENTS

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|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure | D: document cited in the application |
| & : member of the same patent family, corresponding document | L: document cited for other reasons |

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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EP 19 94 50 60

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 04-08-2022
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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